

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>G01N 33/566, 30/46</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 00/65353</b> <b>(43) International Publication Date:</b> 2 November 2000 (02.11.00)
<b>(21) International Application Number:</b> PCT/NL00/00268 <b>(22) International Filing Date:</b> 26 April 2000 (26.04.00) <b>(30) Priority Data:</b> 99201301.1 26 April 1999 (26.04.99) EP <b>(71) Applicant (for all designated States except US):</b> SCREEN TEC B.V. [NL/NL]; Einsteinweg 55, NL-2333 CC Leiden (NL). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> VAN DER GREEF, Jan [NL/NL]; De Beaufortlaan 8, NL-3971 BM Driebergen (NL). IRTH, Hubertus [NL/NL]; Rooseveltlaan 112-II, NL-1078 NP Amsterdam (NL). <b>(74) Agent:</b> PRINS, A., W.; Vereenigde, Nieuwe Parklaan 97, NL-2587 BN The Hague (NL).		<b>(81) Designated States:</b> AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> IDENTIFICATION OF LIGANDS FOR ORPHAN RECEPTORS USING MASS SPECTROMETRY		
<b>(57) Abstract</b> <p>The present invention relates to the on-line coupling of mass spectrometry (MS) to continuous-flow separation techniques for detecting orphan analytes, viz. receptors which do not have known ligands. In a further embodiment, this on-line detection method is used as either a screening method for assays with an unknown ligand. Furthermore, this invention relates to compounds detected by this method and the use of these compounds as a ligand for affinity molecules.</p>		